# 1-Chloro-2,6-diisopropyl-4-methylbenzene

**Inchi:** InChI=1S/C13H19Cl/c1-8(2)11-6-10(5)7-12(9(3)4)13(11)14/h6-9H,1-5H3
**InchiKey:** WURDTYCULJKTHQ-UHFFFAOYSA-N
**Formula:** C13H19Cl
**SMILES:** Cc1cc(C(C)C)c(Cl)c(C(C)C)c1
**Mol. weight [g/mol]:** 210.74
**CAS:** 98184-19-1

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 125.29 | kJ/mol | Joback Method |
| hf | -135.83 | kJ/mol | Joback Method |
| hfl | -194.00 ± 5.10 | kJ/mol | NIST Webbook |
| hfus | 19.45 | kJ/mol | Joback Method |
| hvap | 52.40 | kJ/mol | Joback Method |
| log10ws | -5.00 | | Crippen Method |
| logp | 4.895 | | Crippen Method |
| mcvol | 182.510 | ml/mol | McGowan Method |
| pc | 2064.24 | kPa | Joback Method |
| tb | 575.01 | K | Joback Method |
| tc | 787.98 | K | Joback Method |
| tf | 300.17 | K | Joback Method |
| vc | 0.693 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 425.47 | J/mol×K | 575.01 | Joback Method |
| cpg | 442.06 | J/mol×K | 610.51 | Joback Method |
| cpg | 457.77 | J/mol×K | 646.00 | Joback Method |
| cpg | 472.61 | J/mol×K | 681.50 | Joback Method |
| cpg | 486.62 | J/mol×K | 716.99 | Joback Method |
| cpg | 499.82 | J/mol×K | 752.49 | Joback Method |
| cpg | 512.24 | J/mol×K | 787.98 | Joback Method |
| dvisc | 0.0022241 | Pa×s | 300.17 | Joback Method |

| | | | | |
|---|---|---|---|---|
| dvisc | 0.0010689 | Pa×s | 345.98 | Joback Method |
| dvisc | 0.0006098 | Pa×s | 391.78 | Joback Method |
| dvisc | 0.0003912 | Pa×s | 437.59 | Joback Method |
| dvisc | 0.0002730 | Pa×s | 483.40 | Joback Method |
| dvisc | 0.0002028 | Pa×s | 529.20 | Joback Method |
| dvisc | 0.0001579 | Pa×s | 575.01 | Joback Method |

# Sources

| | |
|---|---|
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |
| **Joback Method:** | https://en.wikipedia.org/wiki/Joback_method |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C98184191&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# Legend

| | |
|---|---|
| **cpg:** | Ideal gas heat capacity |
| **dvisc:** | Dynamic viscosity |
| **gf:** | Standard Gibbs free energy of formation |
| **hf:** | Enthalpy of formation at standard conditions |
| **hfl:** | Liquid phase enthalpy of formation at standard conditions |
| **hfus:** | Enthalpy of fusion at standard conditions |
| **hvap:** | Enthalpy of vaporization at standard conditions |
| **log10ws:** | Log10 of Water solubility in mol/l |
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |
| **pc:** | Critical Pressure |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |